

## AmericanAirFilter® VariCel® VXL

### High Efficiency Filter for HVAC Systems

- Available in MERV 15, MERV 14, MERV 13, and MERV 11
- Excellent performance in difficult operating conditions
- Lightweight and easy to install
- Fully incinerable
- Single- and double-header models
- MERV 15 and 14 models available with antimicrobial treated media

The VariCel VXL filter is an 8-panel high efficiency filter designed for use in commercial and industrial HVAC installations. The VariCel VXL filter delivers the desired air quality when used in systems with difficult operating conditions, such as variable air volume, turbulent airflow, repeated fan shutdown, or moderate to high humidity. The width and height dimensions are interchangeable, and the filters can be installed with the pleats either vertical or horizontal without affecting performance. VariCel VXL filters can be used in high velocity systems operating at up to 750 FPM.

#### Construction

The header and cell sides provide a sturdy construction that resists damage during shipping, handling, and operation. Constructed of plastic, the VariCel VXL filter is fully incinerable.

#### Separators

The thermoplastic separators maintain uniform spacing between pleats to allow optimal flow of air into and through the filter. They also ensure large effective media area for low resistance and high dust holding capacity.



Header on the end panels allows installation in reverse flow installations.



VariCel® MERV 13 filters and higher meet efficiency requirements established for LEED® Project Certification.

#### Specifications

**Maximum Operating Temperature:** 176°F/80°C

**Media:** Ultra-fine, dual density microglass paper formed into pleats.

**Cell Sides:** The molded end panels are made of high impact polystyrene (HIPS). The extruded vertical components are made of acrylonitrile butadiene styrene (ABS).

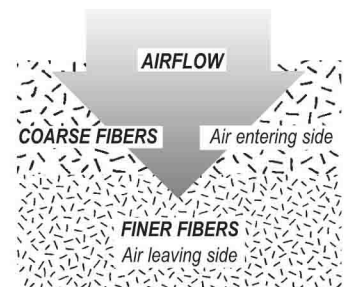
**Separators:** Continuous beads of low profile thermoplastic material.

**Underwriters Laboratories Classification:** UL Classified. Testing was performed according to UL Standard 900.

#### Dual Density Media Reduces Operating Costs

VariCel VXL media is manufactured with two layers of glass fibers: coarse fibers on the air entering side, and finer fibers on the air leaving side.

Our dual-density design allows dirt particles to be collected throughout the entire depth of the media pack, utilizing the full filtering potential of the media and maximizing dust holding. Maximum dust holding capacity extends the life of the filter, minimizing operating costs.



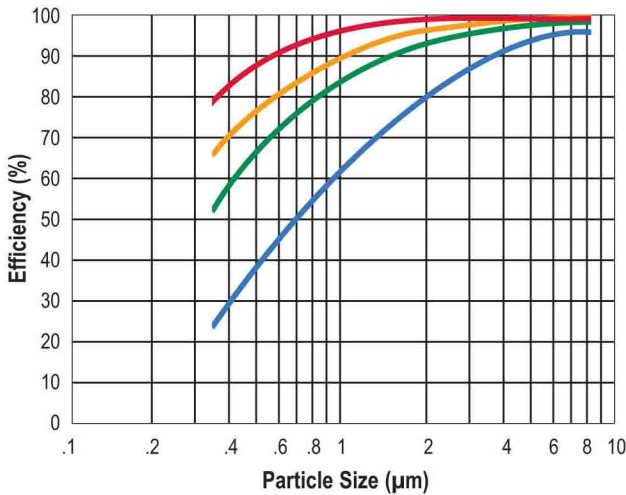
# AmericanAirFilter® VariCel® VXL

## Product Information — Standard Sizes

Nominal Sizes (Inches) (W x H x D)	Actual Sizes (Inches) (W x H x D)	Rated Airflow Capacity (SCFM)			Media Area (sq. ft.)
		Low	Med	High	
24 x 12 x 12	23 <sup>3</sup> / <sub>8</sub> x 11 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1,000	1,250	1,500	88
24 x 20 x 12	23 <sup>3</sup> / <sub>8</sub> x 19 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	1,650	2,100	2,500	161
24 x 24 x 12	23 <sup>3</sup> / <sub>8</sub> x 23 <sup>3</sup> / <sub>8</sub> x 11 <sup>1</sup> / <sub>2</sub>	2,000	2,500	3,000	197

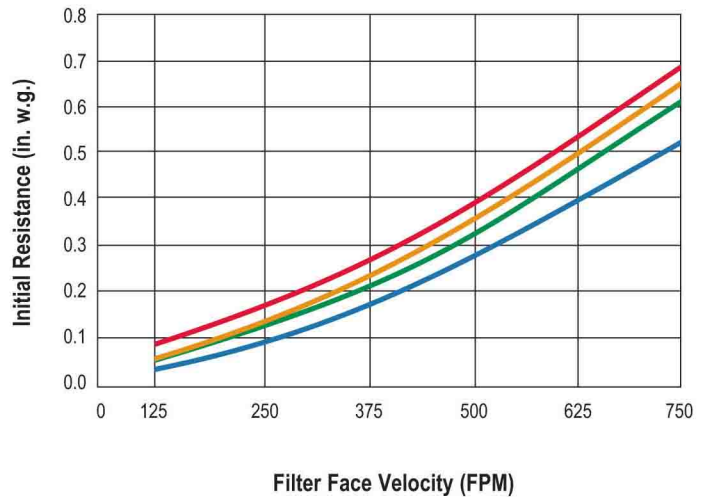
## Performance Data

Composite Minimum Efficiency Curve



Tested in accordance with ASHRAE Standard 52.2.

Initial Resistance vs. Filter Face Velocity



Maximum recommended final resistance for all VariCel® VXL filters is 2 in. w.g.\*

\*Significant energy savings may be realized by operating the VariCel VXL to a lower final resistance. Contact your local AAF representative for an owning and operating cost analysis for your specific application.

<span style="color: red;">■</span>	MERV 15
<span style="color: orange;">■</span>	MERV 14
<span style="color: green;">■</span>	MERV 13
<span style="color: blue;">■</span>	MERV 11